

STIC  
Search

Lucas 10/007,613

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(FILE 'CAPLUS' ENTERED AT 11:31:34 ON 20 OCT 2003)  
DEL HIS Y

FILE 'REGISTRY' ENTERED AT 11:33:42 ON 20 OCT 2003  
E KERATINASE/CN

L1 1 S E3

FILE 'HCAPLUS' ENTERED AT 11:34:02 ON 20 OCT 2003

L2 238 S L1  
L3 246 S L2 OR KERATINASE  
L4 23581 S MEDICAL GOOD# OR SURGICAL (L) INSTRUMENT?  
L5 2 S L3 AND L4  
L6 6074 S CUTLERY OR UTENSIL# OR (LAB OR LABORATORY ) (L) (WARE OR EQUI  
L7 1 S L6 AND L3  
L8 110283 S CABLE OR CENTRIFUG? OR CONTAINER? OR KNIFE? OR PUNCH? OR SAW#  
L9 1 S L8 AND L3  
L10 2 S L5 OR L7 OR L9  
L11 89655 S STERILIZ? OR DISINFECT?  
L12 104617 S HEATING  
L13 193702 S L11 OR L12  
L14 2741 S L13 (L) (L4 OR L6 OR L8)  
L15 2 S L14 AND L3  
L16 0 S ENZYMATIC (L) L14  
L17 660 S ENZYM? (L) L13  
L18 269 S ENZYMIC AND L13  
L19 138213 S L4 OR L6 OR L8  
L20 1840 S L19 (L) L11  
L21 2 S L20 AND L3  
L22 22 S L20 AND (ENZYM?)  
L23 41208 S ENZYM? (L) (TREAT? OR DEGRA? OR HYDROL?)  
L24 4 S L22 AND L23  
L25 5 S L24 OR L21 OR L15  
L26 2 S PROTEOLY? (L) L20  
L27 6 S L25 OR L26  
L28 926 S L19 (L) HEATING  
L29 1 S L28 AND L3  
L30 63886 S L23 OR PROTEOLY?  
L31 2 S L30 AND L28  
L32 7 S L31 OR L29 OR L27  
L33 149369 S PROTEINASE OR TRYPSIN? OR CHYMOTYP? OR PEPSIN? OR CHYMOSIN? O  
L34 15 S L33 AND L20  
L35 93482 S L33 NOT COLLAGEN#  
L36 95121 S L35 OR COLLAGENASE?  
L37 7 S L36 AND L20  
L38 18620 S ENDOPEPTIDAS? OR PEPTIDASE? OR THERMOLYSIN? OR BACILLOLYSIN?  
L39 4 S L38 AND L20  
L40 10440 S CARBONYL HYDROLASE? OR PAPAIN OR PANCREATIN OR STREPTOKINASE?  
L41 4 S L20 AND L40  
L42 10 S L41 OR L39 OR L37

=> fil reg

FILE 'REGISTRY' ENTERED AT 12:15:20 ON 20 OCT 2003  
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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 19 OCT 2003 HIGHEST RN 606921-26-0  
DICTIONARY FILE UPDATES: 19 OCT 2003 HIGHEST RN 606921-26-0

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
PROPERTIES for more information. See STNote 27, Searching Properties  
in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d que l1

L1 1 SEA FILE=REGISTRY ABB=ON PLU=ON KERATINASE/CN

=> d l1

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 37341-53-0 REGISTRY  
CN Keratinase (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN E.C. 3.4.4.25  
CN E.C. 3.4.99.11  
CN E.C. 3.4.99.12  
AR 9025-41-6  
DR 37237-59-5, 37288-91-8  
MF Unspecified  
CI MAN  
LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CIN,  
EMBASE, IFICDB, IFIPAT, IFIUDB, PROMT, TOXCENTER, USPAT2, USPATFULL,  
VETU

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
224 REFERENCES IN FILE CA (1907 TO DATE)  
7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
224 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 12:15:24 ON 20 OCT 2003  
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FILE COVERS 1907 - 20 Oct 2003 VOL 139 ISS 17  
FILE LAST UPDATED: 19 Oct 2003 (20031019/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> d his

(FILE 'CAPLUS' ENTERED AT 11:31:34 ON 20 OCT 2003)  
DEL HIS Y

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FILE 'REGISTRY' ENTERED AT 12:15:20 ON 20 OCT 2003

FILE 'HCAPLUS' ENTERED AT 12:15:24 ON 20 OCT 2003

=> d que 142

L4 23581 SEA FILE=HCAPLUS ABB=ON PLU=ON MEDICAL GOOD#/OBI OR SURGICAL/  
 OBI (L) INSTRUMENT?/OBI  
 L6 6074 SEA FILE=HCAPLUS ABB=ON PLU=ON CUTLERY/OBI OR UTENSIL#/OBI  
 OR (LAB/OBI OR LABORATORY/OBI ) (L) (WARE/OBI OR EQUIP?/OBI)  
 L8 110283 SEA FILE=HCAPLUS ABB=ON PLU=ON CABLE/OBI OR CENTRIFUG?/OBI  
 OR CONTAINER?/OBI OR KNIFE?/OBI OR PUNCH?/OBI OR SAW#/OBI  
 L11 89655 SEA FILE=HCAPLUS ABB=ON PLU=ON STERILIZ?/OBI OR DISINFECT?/OB  
 I  
 L19 138213 SEA FILE=HCAPLUS ABB=ON PLU=ON L4 OR L6 OR L8  
 L20 1840 SEA FILE=HCAPLUS ABB=ON PLU=ON L19 (L) L11  
 L33 149369 SEA FILE=HCAPLUS ABB=ON PLU=ON PROTEINASE/OBI OR TRYPSIN?/OBI  
 OR CHYMOTYP?/OBI OR PEPSIN?/OBI OR CHYMOSIN?/OBI OR CATHEPSIN?  
 /OBI OR SUBTILISIN?/OBI OR ELASTAS?/OBI OR COLLAGEN?/OBI  
 L35 93482 SEA FILE=HCAPLUS ABB=ON PLU=ON L33 NOT COLLAGEN#/OBI  
 L36 95121 SEA FILE=HCAPLUS ABB=ON PLU=ON L35 OR COLLAGENASE?/OBI  
 L37 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L36 AND L20  
 L38 18620 SEA FILE=HCAPLUS ABB=ON PLU=ON ENDOPEPTIDAS?/OBI OR PEPTIDASE  
 ?/OBI OR THERMOLYSIN?/OBI OR BACILLOLYSIN?/OBI OR MYCILYSIN?/O  
 BI OR CARBOXYPEPTIDASE?/OBI OR AMINO PEPTIDASE?/OBI  
 L39 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L38 AND L20  
 L40 10440 SEA FILE=HCAPLUS ABB=ON PLU=ON CARBONYL HYDROLASE?/OBI OR  
 PAPAINE/OBI OR PANCREATIN/OBI OR STREPTOKINASE?/OBI OR STREPTODO  
 RNASE/OBI OR FICIN/OBI OR CHYMOPAPAINE/OBI OR BROMELIN/OBI  
 L41 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 AND L40  
 L42 10 SEA FILE=HCAPLUS ABB=ON PLU=ON L41 OR L39 OR L37

=> d .ca 1-10 142

L42 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 2003:133123 HCAPLUS  
 DOCUMENT NUMBER: 138:175939  
 TITLE: Disinfecting and cleansing system for contact lenses  
 INVENTOR(S): Mowrey-McKee, Mary Flowers; Sills, Marzenna Alicja  
 PATENT ASSIGNEE(S): Novartis AG, Switz.; Novartis Pharma G.m.b.H.  
 SOURCE: PCT Int. Appl., 28 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003013621	A1	20030220	WO 2002-EP8839	20020807
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
 HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU,  
 LV, MA, MD, MK, MN, MX, NO, NZ, OM, PH, PL, PT, RO, RU, SE, SG,  
 SI, SK, TJ, TM, TN, TR, TT, UA, US, UZ, VC, VN, YU, ZA, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT,  
 LU, MC, NL, PT, SE, SK, TR

US 2003118472 A1 20030626 US 2002-210808 20020731

PRIORITY APPLN. INFO.: US 2001-310893P P 20010808

OTHER SOURCE(S): MARPAT 138:175939

AB A system and a method for disinfecting and cleaning ophthalmic devices such as contact lenses is provided. The system involves the use of an active microbicidal soln. generated just prior to use by the reaction of an iodide salt with hydrogen peroxide in the presence of a peroxidase. Such a system is particularly useful for disinfecting contact lenses. Tablets were prepd. from horseradish peroxidase 300.0, subtilisin 8.0, lipase 2.0, sodium benzoate 7.4, KI 0.3, lactose monohydrate 63.0, citric acid 33.0, and K<sub>2</sub>CO<sub>3</sub> 47.0 mg/tablet.

IC ICM A61L012-08  
 ICS A61L012-10; A61L012-12; A61L002-16; A61L002-18; A61L002-23;  
 C11D003-00; A61K009-00

CC 63-7 (Pharmaceuticals)

IT Buffers  
 Contact lenses  
 Disinfectants  
 Medical goods  
 Reducing agents  
 Stabilizing agents

(disinfecting and cleansing system for contact lenses)  
 IT 124-43-6 288-32-4, Imidazole, biological studies 1313-60-6, Sodium peroxide 7631-90-5, Sodium hydrogen sulfite 7632-04-4, Sodium perborate 7681-11-0, Potassium iodide, biological studies 7722-84-1, Hydrogen peroxide, biological studies 7757-83-7, Sodium sulfite 7772-98-7, Sodium thiosulfate 9000-92-4, Amylase 9001-62-1, Lipase 9001-92-7, Protease 9002-07-7, **Trypsin** 9003-99-0, Peroxidase 9014-01-1, Subtilisin 10486-00-7, Sodium perborate tetrahydrate 11130-11-3 15827-60-8, Dequest 2060 20461-54-5, Iodide, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (disinfecting and cleansing system for contact lenses)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L42 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:965014 HCAPLUS

DOCUMENT NUMBER: 138:29227

TITLE: Method and composition for sterilizing surgical instruments comprising heating and proteolytic enzymes

INVENTOR(S): Shih, Jason C. H.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 7 pp., Cont.-in-part of U.S. Ser. No. 834,284.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2002192731	A1	20021219	US 2001-7613	20011026
US 2002172989	A1	20021121	US 2001-834284	20010412
US 6613505	B2	20030902		
WO 2002083082	A2	20021024	WO 2002-US8982	20020322
WO 2002083082	A3	20030717		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2001-834284 A2 20010412

US 2001-7613 A 20011026

AB A method and compn. for sterilizing articles that are contaminated with infectious prion protein, such as surgical instruments, kitchen utensils, lab. tools, etc., comprising the steps of: (a) heating the articles to be treated at a moderate temp. well below the incineration temp. of said infectious prion protein, wherein said moderate temp. is sufficient to enhance the proteolytic susceptibility of infective prion protein assocd. with said articles; and (b) exposing the heated articles to a proteolytic enzyme that is effective for at least partial redn. of the infective protein prion assocd. with said articles under said moderate temp.

IC ICM G01N033-53

ICS G01N033-537; G01N033-543; C11D001-00; G01N033-569; C12Q001-02; C12Q001-22; C12Q001-18; C12Q001-04; C12N015-09; C07F001-00; C07K001-00; C07H001-00; C07J001-00; C07C001-00; C07D201-00

NCL 435007920; 510161000; 435262000; 435031000; 435032000; 435029000; 435007220; 435069200; 435034000

CC 63-8 (Pharmaceuticals)

ST **sterilization surgical instrument heating**  
proteolytic enzyme

IT Prion proteins

RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)  
(PrPSc; method and compn. for **sterilizing surgical instruments** comprising heating and proteolytic enzymes)

IT Materials processing  
(applicators; method and compn. for **sterilizing surgical instruments** comprising heating and proteolytic enzymes)

IT **Medical goods**  
(cannulas; method and compn. for **sterilizing surgical instruments** comprising heating and proteolytic enzymes)

IT Fasteners  
(clamps; method and compn. for **sterilizing surgical instruments** comprising heating and proteolytic enzymes)

IT Electrodes  
(coagulation; method and compn. for **sterilizing surgical instruments** comprising heating and proteolytic enzymes)

IT Buffers  
Cables (mechanical)  
Centrifuges  
Containers  
Detergent builders  
Detergents  
Fillers

Filters  
 Fluorometers  
 Heating  
 Knives  
 Punches  
 Saws  
 Spectrometers  
 Sterilization and Disinfection  
 Surfactants  
 Temperature  
 Waters

(method and compn. for sterilizing surgical  
 instruments comprising heating and proteolytic enzymes)

IT 64-17-5, Alcohol, biological studies 8049-47-6, Pancreatin  
 9001-00-7, Bromelin 9001-09-6, Chymopapain  
 9001-12-1, Collagenase 9001-33-6, Ficin 9001-61-0,  
 Leucyl aminopeptidase 9001-73-4, Papain 9001-75-6,  
 Pepsin 9001-92-7, Proteolytic enzyme 9001-98-3,  
 Chymosin 9002-01-1, Streptokinase 9002-07-7,  
 Trypsin 9004-06-2, Elastase 9004-07-3, Chymotrypsin  
 9004-08-4, Cathepsin 9014-01-1, Subtilisin 9031-94-1,  
 Aminopeptidase 9031-96-3, Peptidase 9031-98-5,  
 Carboxypeptidase 9073-78-3, Thermolysin 9080-56-2,  
 Bacillolysin 37340-82-2, Streptodornase 37341-53-0,  
 Keratinase 39450-01-6 110639-28-6, Oligopeptidase  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(method and compn. for sterilizing surgical  
 instruments comprising heating and proteolytic enzymes)

L42 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:813887 HCAPLUS

DOCUMENT NUMBER: 137:316147

TITLE: Composition and method for destruction of infectious  
 prion proteins

INVENTOR(S): Shih, Jason C. H.

PATENT ASSIGNEE(S): Bioresource International, Inc., USA.

SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002083082	A2	20021024	WO 2002-US8982	20020322
WO 2002083082	A3	20030717		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2002172989	A1	20021121	US 2001-834284	20010412
US 6613505	B2	20030902		
US 2002192731	A1	20021219	US 2001-7613	20011026

PRIORITY APPLN. INFO.:

US 2001-834284 A 20010412  
US 2001-7613 A 20011026

AB A method and compn. for destruction of infectious prion proteins assocd. with transmissible spongiform encephalopathy (TSE) and/or other prion protein-mediated diseases, by thermal/enzymic treatment of the infectious prion proteins with a prion-destructive protease. The method and compn. are applicable to treatment of tissue contg. or contaminated with infectious prion protein strains, or disinfection or sterilization of prion-contaminated articles, such as surgical instruments, kitchen utensils, lab. tools, etc.

IC ICM A61K

CC 63-8 (Pharmaceuticals)

Section cross-reference(s): 9, 17

ST prion protein protease heat treatment **sterilization**; animal tissue **sterilization** protease heat treatment; **medical good sterilization** protease heat treatment; kitchen **utensil sterilization** protease heat treatment; **lab ware sterilization** protease heat treatment

IT Household furnishings  
(**cutlery**; thermal/enzymic treatment for destruction of infectious prion proteins and **disinfection**)

IT Medical equipment  
(**instruments, surgical**; thermal/enzymic treatment for destruction of infectious prion proteins and **disinfection**)

IT Cooking **utensils**  
**Laboratory ware**  
**Medical goods**  
(thermal/enzymic treatment for destruction of infectious prion proteins and **disinfection**)

IT 9001-92-7, **Proteinase**  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(**Mycilysin**; thermal/enzymic treatment for destruction of infectious prion proteins)

IT 8049-47-6, **Pancreatin** 9001-00-7, **Bromelin**  
9001-09-6, **Chymopapain** 9001-12-1, **Collagenase**  
9001-33-6, **Ficin** 9001-61-0, **Leucyl aminopeptidase** 9001-73-4, **Papain** 9001-75-6, **Pepsin** 9001-98-3, **Chymosin**  
9002-01-1, **Streptokinase** 9002-07-7, **Trypsin**  
9004-06-2, **Elastase** 9004-07-3, **Chymotrypsin** 9004-08-4, **Cathepsin** 9014-01-1, **Subtilisin** 9031-94-1, **Aminopeptidase**  
9031-96-3, **Peptidase** 9031-98-5, **Carboxypeptidase**  
9073-78-3, **Thermolysin** 9080-56-2, **Bacillolysin**  
37340-82-2, **Streptodornase** 37341-53-0, **Keratinase**  
39450-01-6, **Proteinase K** 110639-28-6, **Oligopeptidase**  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(thermal/enzymic treatment for destruction of infectious prion proteins)

L42 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:465812 HCAPLUS

DOCUMENT NUMBER: 137:44155

TITLE: Regulation of bacterial virulence

INVENTOR(S): Kjellberg, Staffan; Rice, Scott; McDougald, Diane

PATENT ASSIGNEE(S): Unisearch Limited, Australia

SOURCE: PCT Int. Appl., 74 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent



LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002047681	A1	20020620	WO 2001-AU1621	20011214
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002020378	A5	20020624	AU 2002-20378	20011214
PRIORITY APPLN. INFO.:			AU 2000-2090	A 20001214
			WO 2001-AU1621	W 20011214

OTHER SOURCE(S): MARPAT 137:44155

AB The present invention relates to methods of inhibiting virulence in organisms with an AI-2 system using furanones and related compds. These methods represent a novel mechanism for controlling disease causing organisms.

IC ICM A61K031-365

ICS A61K031-366; A61K031-121; A61K031-19; A61P031-04

CC 10-5 (Microbial, Algal, and Fungal Biochemistry)

Section cross-reference(s): 1, 62, 63

IT **Medical goods**

(bandages, **disinfectant**-contg.; regulation of bacterial virulence by inhibiting AI-2 signaling pathway using furanones and related compds.)

IT **Medical goods**

(catheters, **disinfection** of; regulation of bacterial virulence by inhibiting AI-2 signaling pathway using furanones and related compds.)

IT **Medical goods**

(dressings, **disinfectant**-contg.; regulation of bacterial virulence by inhibiting AI-2 signaling pathway using furanones and related compds.)

IT **Medical goods**

(indwelling, **disinfection** of; regulation of bacterial virulence by inhibiting AI-2 signaling pathway using furanones and related compds.)

IT **Medical goods**

(orthopedic, **disinfection** of; regulation of bacterial virulence by inhibiting AI-2 signaling pathway using furanones and related compds.)

IT **Medical goods**

(tampons, **disinfectant**-contg.; regulation of bacterial virulence by inhibiting AI-2 signaling pathway using furanones and related compds.)

IT 9031-96-3, **Peptidase**

RL: BSU (Biological study, unclassified); BIOL (Biological study) (prodn., virulence factor; regulation of bacterial virulence by inhibiting AI-2 signaling pathway using furanones and related compds.)

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L42 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2000:772850 HCAPLUS

DOCUMENT NUMBER: 133:340295

TITLE: Biological indicators for validating a prion  
sterilization processINVENTOR(S): Belhumeur, Pierre; Julien, Karine; Tabrizian, Maryam;  
Yahia, L'Hocine; Marchand, Richard

PATENT ASSIGNEE(S): Universite de Montreal, Can.

SOURCE: PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000065344	A2	20001102	WO 2000-CA446	20000420
WO 2000065344	A3	20010222		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 2000010007	A	20020115	BR 2000-10007	20000420
EP 1173603	A2	20020123	EP 2000-922360	20000420
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002542775	T2	20021217	JP 2000-614033	20000420
NZ 514929	A	20021220	NZ 2000-514929	20000420
ZA 2001008328	A	20021010	ZA 2001-8328	20011010
PRIORITY APPLN. INFO.: US 1999-130945P P 19990426				
WO 2000-CA446 W 20000420				
AB	The present invention relates to a method of evaluating the efficiency of sterilization processes by measurement of degrdn. levels of prion protein indicators. When exposed to sterilization conditions, prion indicators are degraded in a manner to proportionally indicate the level of degrdn. of prion proteins themselves on medical devices or other surfaces usable in surgery and health cares.			
IC	ICM G01N033-48			
CC	63-7 (Pharmaceuticals)			
IT	Composites			
	Medical goods			
	Medical goods			
	(containers; biol. indicators for validating a prion sterilization process)			
IT	Alloys, biological studies			
	Borosilicate glasses			
	Metals, biological studies			
	Polymers, biological studies			
RL:	DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)			
	(containers; biol. indicators for validating a prion sterilization process)			
IT	Containers			
	(glass; biol. indicators for validating a prion sterilization)			

process)  
 IT Containers  
 Containers  
 (medical; biol. indicators for validating a prion sterilization process)  
 IT Containers  
 (paper; biol. indicators for validating a prion sterilization process)  
 IT 9001-92-7, **Proteinase**  
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)  
 (digestion by; biol. indicators for validating a prion sterilization process)

L42 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2000:427716 HCAPLUS  
 DOCUMENT NUMBER: 133:64099  
 TITLE: Cleaning of medical goods using **proteinase** and apparatus for the method  
 INVENTOR(S): Shibata, Koichi  
 PATENT ASSIGNEE(S): Yokokawa Denshi Denki K. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000176389	A2	20000627	JP 1998-358271	19981216
PRIORITY APPLN. INFO.:			JP 1998-358271	19981216
AB	Medical goods such as clamps, scalpels, etc., are cleaned by (1) prewashing them upon soaking in a detergent contg. <b>proteinase</b> , (2) washing the surface of them while jetting warm water, (3) pouring hot water onto them for sterilization, and then (4) drying them with warm air. The prewashing step is preferably performed under stirring and the detergent is preferably a neutral detergent kept at 35-48.degree.. Also claimed is a cleaning app. having a basket receiving the medical goods. This method can remove proteinaceous soil in narrow spaces such as a hinge part of a clamp and has no risk of breaking a tip of scalpels, etc.			
IC	ICM B08B003-08 ICS B08B003-02			
CC	63-8 (Pharmaceuticals)			
ST	medical good cleaning prewashing neutral detergent <b>proteinase</b>			
IT	Cleaning (app.; cleaning of medical goods including prewashing step by soaking in warm neutral detergent contg. <b>proteinase</b> )			
IT	Medical goods (cleaning of medical goods including prewashing step by soaking in warm neutral detergent contg. <b>proteinase</b> )			
IT	<b>Sterilization and Disinfection</b> (hot water; cleaning of medical goods including prewashing step by soaking in warm neutral detergent contg. <b>proteinase</b> )			
IT	Detergents (nonionic; cleaning of medical goods including prewashing step by soaking in warm neutral detergent contg. <b>proteinase</b> )			
IT	9001-92-7, <b>Proteinase</b> RL: TEM (Technical or engineered material use); USES (Uses) (cleaning of medical goods including prewashing step by soaking in warm			

neutral detergent contg. **proteinas**)

L42 ANSWER 7 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2000:297912 HCAPLUS

DOCUMENT NUMBER: 133:48852

TITLE: Irradiation effects on hydrazes for biomedical applications

AUTHOR(S): Furuta, Masakazu; Ohashi, Isao; Oka, Masahito; Hayashi, Toshio

CORPORATE SOURCE: Research Institute for Advanced Science and Technology, Osaka Prefecture University, Osaka, 599-8570, Japan

SOURCE: Radiation Physics and Chemistry (2000), 57(3-6), 455-457

CODEN: RPCHDM; ISSN: 0969-806X

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB To apply an irradiation technique to sterilize "Hybrid" biomedical materials including enzymes, we selected papain, a well-characterized plant endopeptidase as a model to examine durability of enzyme activity under the practical irradiation condition in which limited data were available for irradiation inactivation of enzymes. Dry powder and frozen aqueous solution of papain showed significant durability against <sup>60</sup>Co-gamma irradiation suggesting that, the commercial irradiation sterilizing method is applicable without modification. Although irradiation of unfrozen aqueous papain solution showed an unusual change of the enzymic activity with the increasing doses, and was totally inactivated at 15 kGy, we managed to keep the residual activity more than 50% of initial activity after 3-kGy irradiation, taking such optimum conditions as increasing enzyme concentration from 10 to 100 mg/mL and purging with N<sub>2</sub> gas to suppress the formation of free radicals.

CC 63-7 (Pharmaceuticals)

Section cross-reference(s): 7

ST hydrazes **medical good sterilization gamma irradiation; papain medical good sterilization gamma irradiation**

IT 9001-73-4, **Papain**

RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent) (irradiation effects on hydrazes for biomedical applications)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L42 ANSWER 8 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1998:151267 HCAPLUS

DOCUMENT NUMBER: 128:202705

TITLE: Method and test kit for pretreatment of surfaces of medical goods and other biofilm-acquiring objects

INVENTOR(S): Tuompo, Helena; Wirtanen, Gun; Salo, Satu; Scheinin, Leena; Batsman, Ari; Levo, Seija

PATENT ASSIGNEE(S): Orion-Yhtymä Oy Orion Diagnostica, Finland; Tuompo, Helena; Wirtanen, Gun; Salo, Satu; Scheinin, Leena; Batsman, Ari; Levo, Seija

SOURCE: PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO. DATE

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WO 9807883      A1  19980226      WO 1997-FI481      19970818
W: JP, NO, US
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
FI 9603235      A   19980217      FI 1996-3235      19960816
EP 879295       A1  19981125      EP 1997-936705    19970818
R: AT, BE, CH, DE, DK, FR, GB, IT, LI, NL, SE, IE, FI
JP 11513901     T2  19991130      JP 1997-510451    19970818
US 5910420      A   19990608      US 1998-54822     19980403
NO 9801691      A   19980415      NO 1998-1691      19980415
PRIORITY APPLN. INFO.:      FI 1996-3235      19960816
                               WO 1997-FI481      19970818

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AB The invention concerns a new method for removing biofilm from test surfaces. The method uses a component mixt. blend which enhances the removal of biofilm. The sampler, e.g. a cotton swab, can first be wet in the mixt., which removes biofilm, then the biofilm can be sampled from the surface with the sampler. On the other hand, the component blend can also be sprayed directly on the studied surface, whereafter the biofilm is sampled with the sampler. The microorganisms are detd. from the sampler with a method known per se, e.g. by cultivating. The component blend can also be used for pretreating surfaces prior to cleaning or disinfecting in order to remove biofilm layer formed by microbes. The compn. of the component blend is chosen according to the application. The method allows for reliable and replicable detn. of microorganisms formed on the investigated surfaces.

IC ICM C12Q001-24

ICS C12Q001-34

CC 9-16 (Biochemical Methods)

Section cross-reference(s): 17, 63

IT *Aspergillus niger*

Buffers

Chelating agents

Detergents

Medical goods

Mold (fungus)

Reducing agents

Scouring agents

#### **Sterilization and Disinfection**

(method and test kit for pretreatment of surfaces of medical goods and other biofilm-acquiring objects)

IT 60-00-4, Edta, biological studies 102-71-6, Triethanolamine, biological studies 9000-92-4, Amylase 9001-73-4, Papaine 9001-92-7, **Proteinase** 9012-54-8, Cellulase 9027-41-2, Hydrolytic enzymes 9032-75-1, Pectinase 25322-68-3D, derivs.

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(method and test kit for pretreatment of surfaces of medical goods and other biofilm-acquiring objects)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L42 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1991:58284 HCAPLUS

DOCUMENT NUMBER: 114:58284

TITLE: Characteristics of a new bioindicator and the testing of thermal disinfection methods

AUTHOR(S): Senkpiel, Klaus; Hoffmann, Henning; Kantelberg, Ulrike; Ohgke, Helge; Beckert, Johannes

CORPORATE SOURCE: Inst. Hyg., Med. Univ. Luebeck, Luebeck, D-2400,

SOURCE: Germany  
Zentralblatt fuer Hygiene und Umweltmedizin (1990),  
190(3), 275-92  
CODEN: ZHUMEO; ISSN: 0934-8859

DOCUMENT TYPE: Journal

LANGUAGE: German

AB The suitability of a thermostable metalloproteinase isolated from *Bacillus thermoproteolyticus*, thermolysin (E.C. 3.4.24.4), for application as a bioindicator for testing the effectiveness of hospital thermal disinfection methods (medical instruments, mattresses) was established. Various parameters such as optimal temp. (75.degree.) and pH (8.0), specific activity following immobilization on filter paper (24.588 .mu.mol/(mg.cntdot.min.cntdot.L)), Michaelis const. (5.63 .times. 10<sup>-3</sup>M, and Vmax (129.9 .mu.mol/L), were detd. after which its thermal deactivation kinetics was measured for temps. of 75-93.degree. and exposition times of 3-20 min. The immobilized enzyme was sealed in a polypropylene/polyester foil and compared with conventional phys. and microbiol. sterilization test methods, whereby variability coeffs. of 12-29% compared to the other methods was seen. The bioindicator was stable <12 wks. at room temp.

CC 9-2 (Biochemical Methods)  
Section cross-reference(s): 7, 10, 63

ST thermolysin bioindicator heat disinfection hospital

IT Heat, biological effects  
(disinfection by, thermolysin-contg. bioindicator for detn. of efficiency of, for hospitals)

IT Hospitals  
(heat disinfection of medical and other goods in, thermolysin-contg. bioindicator for detn. of efficiency of)

IT Medical goods  
(heat disinfection of, thermolysin-contg. bioindicator for detn. of efficiency of, for hospitals)

IT Sterilization and Disinfection  
(heat, thermolysin-contg. bioindicator for detn. of efficiency of, for hospitals)

IT Michaelis constant  
(of thermolysin, of *Bacillus thermoproteolyticus*)

IT Kinetics, enzymic  
(of thermolysin, of *Bacillus thermoproteolyticus*, thermal deactivation effect on)

IT *Bacillus thermoproteolyticus*  
(thermolysin of, as bioindicator for detn. of heat disinfection efficiency, for hospitals)

L42 ANSWER 10 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1990:565408 HCAPLUS

DOCUMENT NUMBER: 113:165408

TITLE: Protease for the treatment of viral infections and sterilization of pharmaceutical and food products

INVENTOR(S): Sutton, Peter Morgan; Oxford, John Sydney

PATENT ASSIGNEE(S): Public Health Laboratory Service Board, UK; Retroscreen Ltd.

SOURCE: Eur. Pat. Appl., 6 pp.  
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 358500	A1	19900314	EP 1989-309061	19890907
R: ES, GR				
WO 9002562	A1	19900322	WO 1989-GB1053	19890907
W: AU, JP, US				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
AU 8942057	A1	19900402	AU 1989-42057	19890907
EP 433353	A1	19910626	EP 1989-910134	19890907
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 04500518	T2	19920130	JP 1989-509772	19890907
ZA 8906864	A	19900627	ZA 1989-6864	19890908
PRIORITY APPLN. INFO.:			GB 1988-21049	19880908
			WO 1989-GB1053	19890907
AB	A viral infection is treated by administering a protease, esp. a plant protease such as bromelain, papain or ficin. Examples of viral infections include infections with DNA- or RNA-contg. viruses or infections caused by prions. The proteases are also useful in the prodn. or sterilization of pharmaceutical preps. or food-stuffs to decrease the content of virus, pro-virus or virus-infected cells therein and in the sterilization or decontamination of surgical devices. Virucidal effects of bromelain were tested with an allantoic fluid infected with influenza virus and a HIV-infected human T-lymphocytes cell line.			
IC	ICM A61K037-54			
	ICS A61K037-547			
CC	1-5 (Pharmacology)			
	Section cross-reference(s): 17, 63			
IT	Blood			
	Food			
	<b>Medical goods</b>			
	Transplant and Transplantation, animal			
	(sterilization of, virucidal proteases for)			
IT	9001-00-7, Bromelain 9001-33-6, <b>Ficin</b> 9001-73-4,			
	<b>Papain</b> 9001-92-7, Protease 9002-07-7, <b>Trypsin</b>			
	9004-07-3, Chymotrypsin			
	RL: BIOL (Biological study)			
	(viral infection and contamination treatment with)			

Lucas 10/007,613

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FILE 'STNGUIDE' ENTERED AT 12:18:09 ON 20 OCT 2003

FILE 'WPIDS' ENTERED AT 12:24:39 ON 20 OCT 2003

L1 561019 S HEATING OR STERILI?  
L2 19638 S (MEDICAL OR SURGICAL) (2A) (GOOD# OR INSTRUMENT# OR APPARAT?  
L3 2107 S L1 (L) L2  
L4 54 S KERATINASE  
L5 1 S L3 AND L4  
L6 2624 S PROTEOLY? (4A) ENZYM?  
L7 5 S L3 AND L6  
L8 413 S BACILLUS LICHEN?  
L9 2 S L8 AND L3  
L10 491 S SUBTILISIN? OR CARBONYL (2A) HYDROLAS?  
L11 1 S L10 AND L3  
L12 6 S L5 OR L7 OR L9 OR L11  
L13 22957 S ENZYM? (S) (DEGRA? OR HYDROLY? OR TREAT?)  
L14 9 S L3 AND L13  
L15 12 S L14 OR L12  
L16 329 S HEAT? (S) (ENHANCE? OR INCREASE?) (S) (PROTEOLY? OR ENZYM?)  
L17 1 S L3 AND L16  
L18 12 S L15 OR L17

FILE 'WPIDS' ENTERED AT 12:32:10 ON 20 OCT 2003

=> d que l18

L1 561019 SEA FILE=WPIDS ABB=ON PLU=ON HEATING OR STERILI?  
L2 19638 SEA FILE=WPIDS ABB=ON PLU=ON (MEDICAL OR SURGICAL) (2A)  
(GOOD# OR INSTRUMENT# OR APPARAT? OR ARTICLE?)  
L3 2107 SEA FILE=WPIDS ABB=ON PLU=ON L1 (L) L2  
L4 54 SEA FILE=WPIDS ABB=ON PLU=ON KERATINASE  
L5 1 SEA FILE=WPIDS ABB=ON PLU=ON L3 AND L4



L6	2624	SEA FILE=WPIDS	ABB=ON	PLU=ON	PROTEOLY? (4A) ENZYM?
L7	5	SEA FILE=WPIDS	ABB=ON	PLU=ON	L3 AND L6
L8	413	SEA FILE=WPIDS	ABB=ON	PLU=ON	BACILLUS LICHEN?
L9	2	SEA FILE=WPIDS	ABB=ON	PLU=ON	L8 AND L3
L10	491	SEA FILE=WPIDS	ABB=ON	PLU=ON	SUBTILISIN? OR CARBONYL (2A) HYDROLAS?
L11	1	SEA FILE=WPIDS	ABB=ON	PLU=ON	L10 AND L3
L12	6	SEA FILE=WPIDS	ABB=ON	PLU=ON	L5 OR L7 OR L9 OR L11
L13	22957	SEA FILE=WPIDS	ABB=ON	PLU=ON	ENZYM? (S) (DEGRA? OR HYDROLY? OR TREAT?)
L14	9	SEA FILE=WPIDS	ABB=ON	PLU=ON	L3 AND L13
L15	12	SEA FILE=WPIDS	ABB=ON	PLU=ON	L14 OR L12
L16	329	SEA FILE=WPIDS	ABB=ON	PLU=ON	HEAT? (S) (ENHANCE? OR INCREASE? ) (S) (PROTEOLY? OR ENZYM?)
L17	1	SEA FILE=WPIDS	ABB=ON	PLU=ON	L3 AND L16
L18	12	SEA FILE=WPIDS	ABB=ON	PLU=ON	L15 OR L17

=> d .wp 1-12 118

L18 ANSWER 1 OF 12 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN  
 AN 2003-559838 [53] WPIDS  
 DNN N2003-445031  
 TI Method for disinfecting and sterilizing appliances as well as washing and  
 sterilizing equipment.  
 DC P31 P34 S05  
 IN WANG, A; WANG, T; WANG, X  
 PA (WANG-I) WANG A  
 CYC 1  
 PI CN 1415380 A 20030507 (200353)\*  
 ADT CN 1415380 A CN 2002-139173 20021014  
 PRAI CN 2002-139173 20021014  
 AB CN 1415380 A UPAB: 20030820  
 NOVELTY - A method for disinfecting the general **apparatus** and  
**medical** equipment features that the biologic **enzyme** able  
 to **degrade** biologic and organic substances, the chemical  
 disinfectant, and the ozonized water able to disinfect, decompose and  
 neutralize organic and inorganic substances are integrated, and includes  
 washing with the solution of biologic **enzyme**,  
**sterilizing** with chemical disinfectant, washing with ozonized  
 water, baking and harmless drainage. Its equipment is composed of sealed  
 shower unit, ozone generator, biologic **enzyme** and chemical  
 disinfectant feeder, baker and microcomputerized control system.  
 Dwg.0/0

L18 ANSWER 2 OF 12 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN  
 AN 2003-176090 [18] WPIDS  
 DNN N2003-138554 DNC C2003-046305  
 TI Sterilizing method for medical equipment and its cleaning sterilizer.  
 DC D22 P34  
 IN WANG, A; WANG, H; WANG, X  
 PA (WANG-I) WANG H  
 CYC 1  
 PI CN 1377708 A 20021106 (200318)\*  
 ADT CN 1377708 A CN 2002-115814 20020509  
 PRAI CN 2002-115814 20020509  
 AB CN 1377708 A UPAB: 20030317  
 NOVELTY - The **sterilizing** method for medical equipment is to  
 combine the **sterilizing** function of ozonized water and organic  
 matter **degrading** function of **enzyme**. The equipment be

used to sterilize endoscope and surgical instruments, and the sterilizing includes the steps of: washing with enzyme solution, washing with water, sterilizing with high concentration ozonized water, stoving and no-harm treatment. The cleaning sterilizer for implementing the said method includes an enclosed sprayer, an ozone generator, a stove and a microcomputerized control system and includes a no-harm treater.  
Dwg.0/0

L18 ANSWER 3 OF 12 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN  
AN 2002-750710 [81] WPIDS  
DNC C2002-212836  
TI **Treatment** for reducing infective prion protein at locus contaminated or suspected of being contaminated with infective prion protein by heating the locus at predetermined conditions, and exposing heated locus to **proteolytic enzyme**.  
DC D13 D16 D22  
IN SHIH, J C H  
PA (BIOR-N) BIORESOURCE INT INC; (SHIH-I) SHIH J C H  
CYC 98  
PI WO 2002083082 A2 20021024 (200281)\* EN 41p  
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ  
NL OA PT SD SE SL SZ TR TZ UG ZM ZW  
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM  
DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU  
SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW  
US 2002172989 A1 20021121 (200301)  
US 2002192731 A1 20021219 (200303)  
US 6613505 B2 20030902 (200359)  
ADT WO 2002083082 A2 WO 2002-US8982 20020322; US 2002172989 A1 US 2001-834284  
20010412; US 2002192731 A1 CIP of US 2001-834284 20010412, US 2001-7613  
20011026; US 6613505 B2 US 2001-834284 20010412  
PRAI US 2001-7613 20011026; US 2001-834284 20010412  
AB WO 200283082 A UPAB: 20021216  
NOVELTY - **Treatment** for reduction of infective prion protein at a locus contaminated or suspected of being contaminated with infective prion protein involves **heating** the locus to **enhance** the **proteolytic** susceptibility of infective prion protein at the locus, and exposing the **heated** locus to a **proteolytic enzyme** to at least partially reduce the infective protein prion at such locus.  
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for:  
(a) a cleansing composition for disinfecting articles that are susceptible to contamination by infectious prion protein, which comprises at least one proteolytic protein, and a solvent;  
(b) a tissue composition comprising tissue containing or contaminated with an infectious prion protein and a **proteolytic enzyme** including **keratinase enzymes**, chymotrypsins, pepsins, chymosins, cathepsins, subtilisins, elastases, collagenases, endopeptidases, peptidases, oligopeptidases, thermolysins, bacillolysin, mycilysins, carboxypeptidases, leucyl aminopeptidases, aminopeptidases, or extremthermiphilic proteases; and  
(c) a method of processing of an animal meat product or by-product, which comprises treating the animal meat product or by-product with a protease for destruction of any infectious prion protein associated with it at above 40 deg. C but below the pyrolytic destruction temperature of the prion protein.  
USE - The treatment method is used for the reduction of infective

prion protein at a locus contaminated or suspected of being contaminated with such infective prion protein. The locus includes article(s) that are susceptible to contamination by infectious prion protein and which comprises **surgical instrument(s)** including clamps, forceps, scissors, knives, cables, punches, tweezers, cannulae, calipers, carvers, curettes, scalers, dilators, clip applicators, retractors, contractors, excavators, needle holders, suction tubes, coagulation electrodes, electroencephalographic depth electrodes, rib and sternum spreaders, bipolar probes, or rib shears. The articles comprise cutleries and kitchen utensils including knives, forks, scissors, peelers, parers, slicers, spatulas, or cleavers. They include laboratory apparatus including containers, filtration devices, centrifuges, spectrophotometers, or fluorometers. The articles also include veterinary devices including clamps, forceps, knives, saws, probes, or electronic stun equipment. The method is particularly used for processing of an animal meat product or by-product. (All claimed). The method is used for the treatment of biological materials, e.g. animal tissue containing or contaminated with infectious prion proteins. It enables processing of biological materials which would otherwise require incineration and disposal into useful and safe animal feeds or other nutritional end products. It is also useful for disinfection and/or **sterilization of articles**, e.g. **surgical instruments**, cutleries, kitchen utensils, laboratory apparatus, and veterinary tools.

**ADVANTAGE** - The method effectively prevents cross-contamination and propagation of infective prion protein caused by reuse of the articles.

**DESCRIPTION OF DRAWING(S)** - The figure illustrates gel electrophoresis/western blot results on SDS-PAGE gel.  
Dwg.2/2

TECH

UPTX: 20021216

**TECHNOLOGY FOCUS - BIOTECHNOLOGY** - Preferred Condition: The locus is heated to not more than 150 preferably 125-140degreesC. The exposing step is carried out at 35-100 preferably 50degreesC or at a temperature that is lower than that of the heating step. The method further comprises testing the locus to verify reduction of infective prion protein by subjecting the locus to a test including Western blot tests, sandwich immunoassay tests, enzyme linked immunosorbent assay tests, fluoroimmunoassay tests, capillary immuno-electrophoresis tests, or plasminogen binding tests. The locus comprises tissue containing or contaminated by infective prion protein, or including mammalian tissue, nervous system tissue, bovine tissue, bovine spongiform encephalopathy (BSE)-infected tissue, ovine tissue, or scrapie-infected tissue. It can be brain, pituitary, intestine, lung, heart, kidney, or spleen tissues. It is from a carrier animal for the infective prion protein.  
**Preferred Concentration:** The concentration of the **keratinase** enzymes is 0.2-1 g/l.  
**Preferred Enzymes:** The **proteolytic enzyme** comprises **keratinase enzymes**, proteinase K, chymotrypsins, pepsins, chymosins, cathepsins, **subtilisins**, elastases, collagenases, endopeptidases, peptidases, oligopeptidases, thermolysins, bacillolysin, mycilysins, carboxypeptidases, leucyl aminopeptidases, aminopeptidases, extremthermophilic proteases, **carbonyl hydrolase**, papain, pancreatin, streptokinase, streptodornase, ficin, carboxypeptidase, chymopapain, or bromelin. The **proteolytic enzyme** comprises a **keratinase enzyme** and/or an active fragment of the enzyme. It comprises a **Bacillus licheniformis** PWD-1 enzyme and/or its active fragment. It comprises a protease enzyme or a **carbonyl hydrolase** comprising **subtilisin** which comprises a mutant of wild-type *Bacillus amyloliquefaciens subtilisin* comprising at

least one amino acid substitutions, additions, or deletions.  
Preferred Components: The cleansing composition further comprises at least one chemical additive including surfactants, builders, boosters, or fillers.

L18 ANSWER 4 OF 12 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN  
AN 2002-557743 [59] WPIDS  
DNN N2002-441456 DNC C2002-158366  
TI Inactivating transmissible spongiform encephalopathy (TSE) agent such as Creutzfeldt-Jacob disease, scrapie, kuru or Gerstmann-Straussler-Scheinker syndrome involves exposing agent to thermostable **proteolytic enzyme**.  
DC B04 D16 D22 P34 S03  
IN RAVEN, N D H  
PA (MICR-N) MICROBIOLOGICAL RES AUTHORITY  
CYC 100  
PI WO 2002053723 A2 20020711 (200259)\* EN 41p  
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ  
NL OA PT SD SE SL SZ TR TZ UG ZM ZW  
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK  
DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR  
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT  
RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM  
ZW  
ADT WO 2002053723 A2 WO 2002-GB52 20020108  
PRAI GB 2001-4696 20010226; GB 2001-420 20010108  
AB WO 200253723 A UPAB: 20020916  
NOVELTY - Inactivating (M1) a transmissible spongiform encephalopathy agent comprising exposing TSE agent to a thermostable **proteolytic enzyme**, is new.  
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:  
(1) **sterilizing** (M2) apparatus by exposing the apparatus to a solution comprising a thermostable **proteolytic enzyme**;  
(2) a composition (I) for inactivating TSE agent, comprising a thermostable **proteolytic enzyme**;  
(3) an apparatus for inactivating a TSE agent, comprising a chamber for receiving contaminated material, unit for controlling the temperature of the chamber and a thermostable **proteolytic enzyme** active at alkaline pH, located within the chamber;  
(4) an antibody (II) specific for prion dimer but does not bind to prion monomer; and  
(5) a purified prion dimer.  
USE - (M1) is useful for inactivating TSE agent such as a prion. TSE agent is Creutzfeldt-Jacob disease or its variant, kuru, fatal familial insomnia, Gerstmann-Straussler-Scheinker syndrome, bovine spongiform encephalopathy, scrapie, feline spongiform encephalopathy, chronic wasting disease or transmissible mink encephalopathy. (I) is useful for **sterilizing** material contaminated with the TSE agent. Prion dimer is useful for examining a sample infected with or suspected to be infected by prion protein, and for detecting prion infectivity, by detecting prion dimer in the sample. The sample contains prion monomer, prion dimer, or their mixtures, or dimer of a fragment of a prion, and is probed with an antibody specific to prion monomer or dimer. The sample is determined whether it contains protein with a molecular weight corresponding to twice that of prion monomer. The prion dimer is also useful for producing (II), by immunizing an animal with a prion dimer, obtaining its extract which contains (II), and isolating from the extract (II). The method comprises obtaining an antibody preparation containing antibodies which bind prion dimer, and removing (II) from the preparation (all claimed). (M1) is

useful in a prophylactic or precautionary mode, where definite knowledge of infection is uncertain, e.g. in sterilization protocols for preparation of surgical apparatus prior to use in surgical procedures. (M1) and (I) are useful for inactivation of TSE agents in potentially contaminated clinical waste and culled animal material. (M1) is useful for sterilizing larger surface areas of apparatus, operating tables or even walls of rooms.

ADVANTAGE - (M1) eliminates false negative results, and does not require highly specialized facilities for complete inactivation of TSE agent when compared to the more energy intensive and expensive incineration procedures. (M1) successfully decontaminates equipment at 50-70 deg. C and pH 9-12, compared to conventional methods, where extremes of temperature are used which leads to damage to the equipment being decontaminated.

Dwg.0/11

TECH

UPTX: 20020916

TECHNOLOGY FOCUS - BIOTECHNOLOGY - Preferred Method: (M1) comprises exposing TSE agent to the thermostable protease at least 40 degrees C, 50-120 degrees C or 55-85 degrees C, preferably 60 or 80 degrees C. The pH is acidic, alkaline or neutral (7) or 8-13, preferably 12. The thermostable proteolytic enzyme is obtained from a thermophilic organism such as archaea, hyperthermophilic bacteria or thermophilic bacteria. The thermophilic organism is *Thermotoga maritima*, *Thermotoga neopolitana*, *Thermotoga thermarum*, *Fervidobacterium islandicum*, *Fervidobacterium nodosum*, *Fervidobacterium pennivorans*, *Thermosiphon africanus*, *Aeropyrum pernix*, *Thermus flavus*, *Pyrococcus* spp., *Sulfolobus solfataricus*, *Desulfurococcus*, *Bacillus thermoproteolyticus*, *B. stearo-thermophilus*, B.sp. 11231, 11276, 11652 or 12031, *Thermus aquaticus*, *Thermus caldophilus*, or *Thermus* sp. 16132, 15673 or Rt41A. In (M2), the solution is maintained at 100 degrees C or 45-85 degrees C. The solution is applied to the apparatus as a spray, and the apparatus is immersed in the solution. The apparatus can be sterilized by exposing it to first and second solution comprising proteolytic enzymes which are same or different. The pH and temperature of the first solution is different to that of the second solution. Preferred Composition: (I) further comprises a buffering agent of pKa 8-13, sodium hydroxide to set pH to 12, and a detergent compound (especially sodium dodecyl sulfate (SDS)). Preferred Antibody: (II) is a labeled antibody.

L18 ANSWER 5 OF 12 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN  
 AN 2002-049113 [06] WPIDS  
 DNN N2002-036367 DNC C2002-013709  
 TI Cleaning composition for cleaning medical instruments, e.g. colonoscopes, includes enzyme, quat biocide, and activity protector.  
 DC D16 D22 D25 E19 P34  
 IN KRITZLER, S; SAVA, A  
 PA (NOVA-N) NOVAPHARM RES AUSTRALIA PTY LTD  
 CYC 97  
 PI WO 2001076647 A1 20011018 (200206)\* EN 37p  
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ  
 NL OA PT SD SE SL SZ TR TZ UG ZW  
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK  
 DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ  
 LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD  
 SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
 AU 2001046237 A 20011023 (200213)  
 BR 2001010145 A 20030107 (200309)  
 EP 1294410 A1 20030326 (200323) EN  
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT

RO SE SI TR

TW 491713 A 20020621 (200323)  
 KR 2003011292 A 20030207 (200339)  
 CN 1422165 A 20030604 (200356)  
 ADT WO 2001076647 A1 WO 2001-AU381 20010405; AU 2001046237 A AU 2001-46237  
 20010405; BR 2001010145 A BR 2001-10145 20010405, WO 2001-AU381 20010405;  
 EP 1294410 A1 EP 2001-918998 20010405, WO 2001-AU381 20010405; TW 491713 A  
 TW 2001-108328 20010406; KR 2003011292 A KR 2002-713351 20021004; CN  
 1422165 A CN 2001-807715 20010405  
 FDT AU 2001046237 A Based on WO 2001076647; BR 2001010145 A Based on WO  
 2001076647; EP 1294410 A1 Based on WO 2001076647  
 PRAI AU 2000-6791 20000407  
 AB WO 200176647 A UPAB: 20020128  
 NOVELTY - A cleaning composition comprises an enzyme, a quat biocide, and  
 an activity protector.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a  
 method for cleaning a **surgical instrument** by immersing  
 the instrument in a solution comprising the inventive composition and  
**sterilizing** the instrument.

USE - For cleaning **medical instruments**, e.g.  
 endoscopes, colonoscopes, laparoscopes, other surgical, medical, biopsy,  
 dental, parts of the instruments and paraphernalia, and hair-dressing  
 tools and beauty parlor equipment.

ADVANTAGE - The invention avoids the risk of infection to persons  
 cleaning **medical instruments**.  
 Dwg.0/0

TECH

UPTX: 20020128

TECHNOLOGY FOCUS - BIOTECHNOLOGY - Preferred Composition: The  
**enzyme** is **proteolytic enzymes**, carbohydrases,  
 esterases, hydrazes, amylases, proteases, catalases, lipases, amylase,  
 cellulases, peroxidases, and/or invertases.  
 A protease is also included in the composition.  
 The activity protector is enzyme stabilizers, enzyme stabilizing systems,  
 and/or micelle formation modifiers and inhibitors.  
 The biocidal efficacy of the quat biocide is protected by enzyme  
 stabilizer(s) and stabilizer enhancers from boron compound, polyols having  
 2-6 hydroxyl groups, formates, calcium ions, polyfunctional amino  
 compounds phosphates, citrates, sulfates, or sequestering agents.  
 It can be protected by a micelle immiscible solvent.  
 The shelf stable liquid disinfectant concentrate composition contains at  
 least 1% by weight of quat biocide and capable of dilution with 20  
 (preferably 200) parts water to 1 part of concentrate.  
 Preferred Property: The diluted solution exhibits a minimum inhibitory  
 concentration (MIC) after 24 hours in the presence of up to 2% tryptone  
 which is less than the MIC of a solution of the same concentration of the  
 same quat biocide in distilled water in the presence of protein.

TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Composition: The quat  
 biocide is a monomeric quat. ammonium antimicrobial compound of formula  
 $R-(R')N(R')-R X$ .

R'-R = optionally substituted, optionally branched, optionally cyclic  
 alkyl;

X = anion, preferably chlorine or bromine

The quat biocide can be mono-long-alkyl chain, tri-short chain, tetralkyl  
 ammonium compounds; and/or di-long-chain, di-short chain tetralkyl  
 ammonium compounds. It is 8-22C dimethyl benzyl ammonium chloride, 8-22C  
 dimethyl ethyl benzyl ammonium chloride, di-6-20C alkyl dimethyl ammonium  
 chloride, or preferably a benzyl dimethyl ammonium halide.

The micelle immiscible solvent is 1-6C alkanols, 1-6C diols, 3-24C  
 alkylene glycol ethers, alkylene glycol alkyl ethers, borates, lactates,

citrates, and/or tart rates.

The solvent includes di(propylene glycol) methyl ether (DPM).

The composition also includes DPM, and nonionic surfactant.

TECHNOLOGY FOCUS - INORGANIC CHEMISTRY - Preferred Component: The stabilizer is boric acid, boric oxide, borax, or sodium ortho-, meta-, or pyro-borate and perborates (preferably sodium tetraborate).

TECHNOLOGY FOCUS - POLYMERS - Preferred Component: The polyol is ethylene glycol, propylene glycol 1,2 propanediol, butyleneglycol, glycerol, mannitol, sorbitol, erythritol, glucose, fructose, or lactose.

L18 ANSWER 6 OF 12 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN  
 AN 2001-226434 [23] WPIDS  
 DNN N2001-160927 DNC C2001-067525  
 TI Shape memory polyurethane or polyurethane-urea polymer, for medical device, article or implant, includes a reaction product of silicon based macrodiol, silicon-based macrodiamine and/or polyether, a diisocyanate, and a chain extender.  
 DC A25 A26 A96 D22 P34  
 IN ADHIKARI, R; GUNATILLAKE, P A; MCCARTHY, S J; MEIJS, G F  
 PA (ELAS-N) ELASTOMEDIC PTY LTD; (AORT-N) AORTECH BIOMATERIALS PTY LTD; (AORT-N) AORTECH BIOMATERIALS HOLDINGS PTY LTD; (ADHI-I) ADHIKARI R; (GUNA-I) GUNATILLAKE P A; (MCCA-I) MCCARTHY S J; (MEIJ-I) MEIJS G F  
 CYC 95  
 PI WO 2001007499 A1 20010201 (200123)\* EN 36p  
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ  
 NL OA PT SD SE SL SZ TZ UG ZW  
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM  
 DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
 LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE  
 SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
 AU 2000057974 A 20010213 (200128)  
 BR 2000012571 A 20020416 (200234)  
 EP 1203038 A1 20020508 (200238) EN  
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
 RO SE SI  
 US 2002161114 A1 20021031 (200274)  
 CN 1361799 A 20020731 (200279)  
 JP 2003505562 W 20030212 (200321) 45p  
 ADT WO 2001007499 A1 WO 2000-AU863 20000718; AU 2000057974 A AU 2000-57974  
 20000718; BR 2000012571 A BR 2000-12571 20000718, WO 2000-AU863 20000718;  
 EP 1203038 A1 EP 2000-943480 20000718, WO 2000-AU863 20000718; US  
 2002161114 A1 Cont of WO 2000-AU863 20000718, US 2002-54742 20020122; CN  
 1361799 A CN 2000-810616 20000718; JP 2003505562 W WO 2000-AU863 20000718,  
 JP 2001-512580 20000718  
 FDT AU 2000057974 A Based on WO 2001007499; BR 2000012571 A Based on WO  
 2001007499; EP 1203038 A1 Based on WO 2001007499; JP 2003505562 W Based on  
 WO 2001007499  
 PRAI AU 1999-1707 19990720  
 AB WO 200107499 A UPAB: 20010425  
 NOVELTY - A shape memory polyurethane or polyurethane-urea polymer  
 includes a reaction product of a silicon based macrodiol, silicon-based  
 macrodiamine and/or polyether, a diisocyanate, and a chain extender.  
 DETAILED DESCRIPTION - A shape memory polyurethane or  
 polyurethane-urea polymer includes a reaction product of: (i); (a) silicon  
 based macrodiol, silicon-based macrodiamine and/or polyether of the  
 formula (I):  

$$A-((CH_2)_m-O)_n-(CH_2)_m-A' \quad (I)$$
  
 (b) a diisocyanate; and (c) a chain extender; or (ii); (b) a  
 diisocyanate; and (c) a chain extender, the polymer having a glass

transition temperature which enables the polymer to be formed into a first shape at a temperature higher than the glass transition temperature and maintained in the first shape when the polymer is cooled to a temperature lower than the glass transition temperature, the polymer then being capable of resuming its original shape on heating to a temperature higher than the glass transition temperature.

A and A' = endcapping groups;

m = an integer of 6 or more; and

n = an integer of 1 or greater.

INDEPENDENT CLAIMS are also included for: (1) a process for preparing a shape memory polymer by: (i) mixing component (a) and the chain extender (c); and (ii) reacting the mixture with the diisocyanate (b); and (2) a process for preparing a shape memory polymer by: (i) reacting component (a) with a diisocyanate (b) to form a prepolymer; and reacting the prepolymer with the chain extender (c).

USE - A device or article which is composed wholly or partly of the shape memory polymer is a **medical device, article or implant** (claimed). The device or article is a stylet; bone suture anchor; vascular, oesophageal or biliary stent; cochlear implant; reconstructive facial surgery; controlled drug release device; component in key-hole surgery; biosensor; membrane for cell encapsulation; medical guidewire; medical guidepin; cannularization; pacemaker, defibrillator or neurostimulator and their respective electrode leads; ventricular assist device; orthopaedic joint or parts thereof; intraocular lens; urological device; stent/graft device; device joining/extending/repair sleeves; heart valve; vein graft; vascular access port; vascular shunt; blood purification device; cast for a broken limb; vein valve, angioplasty, electrophysiology or cardiac output catheter; or tools for insertion of medical devices, infusion and flow control devices, a toy or component, shape memory film, pipe coupling, electrical connector, zero-insertion force connector, robotic, aerospace actuator, dynamic display, flow control device, sporting goods and components, body conforming device, temperature control device, safety release device or heat shrink insulation (claimed).

ADVANTAGE - The shape memory polyurethane has improved mechanical properties, clarity, processability, biostability and/or **degradation** resistance (claimed). The improved mechanical properties are tensile strength, tear strength, flex fatigue resistance, abrasion resistance, Durometer hardness, flexural modulus and/or related measures of flexibility or elasticity. The improved resistance to **degradation** is resistance to free radical, oxidative, enzymatic and/or hydrolytic processes and/or to **degradation** when implanted as a biomaterial. The improved processability is ease of processing by casting and/or thermal means (claimed).

Dwg.0/0

TECH

UPTX: 20010425

TECHNOLOGY FOCUS - POLYMERS - Preferred Components: (a) is a combination of at least two macrodiols, at least two macrodiamines or at least one macrodiol and at least one macrodiamine, has greater than 50 (preferably 70) % silicon-based macrodiol, and the molecular weight 300 - 2000 (preferably 300 - 700). The silicon-based macrodiol or macrodiamine is a polysilane, polysiloxane, amino-terminated polysiloxane or a silicon-based polycarbonate. The polysiloxane or amino-terminated polysiloxane is of formula (II):

AR<sub>5</sub>(SiR<sub>1</sub>R<sub>3</sub>)(R<sub>7</sub>SiR<sub>2</sub>R<sub>4</sub>)pR<sub>6</sub>A' (II)

R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> = hydrogen or an optionally substituted straight chain, branched or cyclic, saturated or unsaturated hydrocarbon radical;

R<sub>7</sub> = a divalent linking group of O, S or NR, or an optionally



substituted straight chain, branched or cyclic, saturated or unsaturated hydrocarbon radical; and

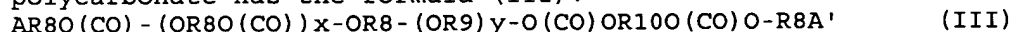
p = an integer of 1 or greater.

Preferably A and A' = OH;

R1- R4 = methyl; and

R5 - R6 = propylene, butylene, pentylene, hexylene, ethoxypropyl (-CH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-), propoxypropyl and butoxypropyl.

The molecular weight of the polysiloxane macrodiol is 200 - 6000 (preferably 500 - 2000). The amino-terminated polysiloxane is a polysiloxane macrodiamine which is a polymer of the formula (II) where A is NH<sub>2</sub>, and preferably is a amino-terminated PDMS. The silicon-based polycarbonate has the formula (III):



R8 = R5(SiR1R3)(R7SiR2R4)mR6

R9 and R10 = optionally substituted straight chain, branched or cyclic, saturated or unsaturated hydrocarbon radical;

m = 0 - 20;

x = 1 - 50;

y = 0 - 10; and

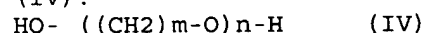
z = 0 - 50.

Preferably A and A' = OH;

R9 = ethyl; and

R10 = hexyl.

The molecular weight of the polycarbonate macrodiol is 400 - 5000 (preferably 400 - 2000). The polyether is a polyether macrodiol of formula (IV):



The polyether macrodiol is poly(tetramethylene oxide) (PTNO), poly(hexamethylene oxide) (PEMO), poly(heptamethylene oxide), poly(octamethylene oxide) (POMO) or poly(decamethylene oxide) (PDMO), and the molecular weight range of the polyether macrodiol is 300 - 2000 (preferably 300 - 700). Component (a) is a combination of PDMS or amino-terminated PDMS with another polymer falling within the scope of component (a). Another polymer is a polyether of the formula (I) or a silicon based polycarbonate, where the polyether of (I) is PHMO. The silicon-based polycarbonate is siloxy carbonate. 33. The diisocyanate is an aliphatic or aromatic diisocyanate, preferably 4,4'-diphenylmethane diisocyanate (MDI), methylene biscyclohexyl diisocyanate, (H12MDI), p-phenylene diisocyanate (p-PDI), trans-cyclohexane-1,4-diisocyanate (CEDI), 1,6-diisocyanatohexane (DICH), 1,5-diisocyanatonaphthalene (NDI), para-tetramethylxylenediisocyanate (p-TMXDI), meta-tetramethylxylylene diisocyanate (m-TMXDI), 2,4-toluene diisocyanate (2,4-TDI) isomers or mixtures or isophorone diisocyanate (IPDI). The chain extender is a diol or diamine chain extender. The diol chain extender is 1,4-butanediol, 1,6-hexanediol, 1,8-octanediol, 1,9-nonanediol, 1,10-decanediol, 1,12-dodecanediol, 1,4-cyclohexanediol, 1,4-cyclohexanedimethanol, p-xyleneglycol, 1,3-bis(4-hydroxybutyl)tetramethyldisiloxane, 1,3-bis(6-hydroxyethoxypropyl)tetramethyldisiloxane or 1,4-bis(2-hydroxyethoxy)benzene. The diamine chain extender is 1,2-ethylenediamine, 1,3-propanediamine, 1,4-butanediamine, 1,3-bis(3-aminopropyl)tetramethyldisiloxane, 1,3-bis(4-aminobutyl)tetramethyldisiloxane or 1,6-hexanediamine. Component (a) polymer forms the soft segment of the polyurethane or polyurethane-urea polymer. Components (b) and (c) of the polymer form the hard segment of the polyurethane or polyurethane-urea polymer. The amount of hard segment in the polymer is 30 - 100 (preferably 50 - 80, especially 60 - 70) wt%. The shore hardness of the polymer below the glass transition temperature is 82 - 50D, while the hardness above the glass transition temperature is 20 - 30D, and the glass transition temperature is 20 - 100 (preferably 20 - 60) degreesC. Preferred Composition: The shape memory composition which

includes a blend of two or more of the shape memory polyurethane or polyurethane-urea or at least one shape memory polyurethane or polyurethane-urea polymer is in combination with another material such as a polymeric or a nonpolymeric material. The polymeric material is a polyurethane, shape memory polyurethane, polyolefin, polyamide or a liquid crystalline polymer. Each of the polymers forming the shape memory composition have different glass transition temperatures and/or different amounts of hard segment component, and includes a first polymer with a low glass transition temperature of below about ambient temperature and a second polymer with a glass transition temperature above the ambient temperature. Preferred Process: Step (i) is performed at a temperature 45 - 100 degreesC.

L18 ANSWER 7 OF 12 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN  
 AN 2001-103020 [11] WPIDS  
 DNC C2001-030236  
 TI Processing of fruits and/or vegetables, e.g. cranberries, for preparing juice enriched in, e.g. factors for anti-adhesion of bacteria, comprises heating a composition to a controlled temperature for a longer duration.  
 DC D13 D22 F07  
 IN MANTIUS, H L  
 PA (OCEA-N) OCEAN SPRAY CRANBERRIES INC  
 CYC 95  
 PI WO 2001003520 A1 20010118 (200111)\* EN 20p  
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ  
 NL OA PT SD SE SL SZ TZ UG ZW  
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM  
 DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
 LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE  
 SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
 AU 2000059146 A 20010130 (200127)  
 EP 1194045 A1 20020410 (200232) EN  
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
 RO SE SI  
 ADT WO 2001003520 A1 WO 2000-US18436 20000705; AU 2000059146 A AU 2000-59146  
 20000705; EP 1194045 A1 EP 2000-945165 20000705, WO 2000-US18436 20000705  
 FDT AU 2000059146 A Based on WO 2001003520; EP 1194045 A1 Based on WO  
 2001003520  
 PRAI US 1999-142791P 19990708  
 AB WO 200103520 A UPAB: 20011129  
 NOVELTY - Fruits and/or vegetables are processed by heating a fruit and/or a vegetable composition comprising fruit and/or vegetable of at least one species to greater than 140 deg. F for at least 2 minutes; treating the heat-treated composition to separate the juice from insoluble solids present in the composition; and collecting the juice.  
 USE - The method is for preparing a juice from fruits and/or vegetables (claimed), e.g. cranberries, prunes, carrots, lettuce, enriched in beneficial compounds, e.g. factors which inhibit bacterial adhesion. The juice enriched in an anti-adhesion factor can be used in juice drinks or as a food additive to confer anti-adhesion health benefits. This juice can also be used to coat materials, e.g. **medical instruments, medical dressings, tampons, diapers, and food processing equipment**, to reduce bacterial adhesion. The juice can also be added to toothpaste, mouthwash, antiseptics, and other topically administered products.  
 ADVANTAGE - The method provides fruit and vegetable products that retain high levels of beneficial compounds, e.g. factors that inhibit bacterial adhesion, lower cholesterol, or reduce risk of heart disease or various cancers.  
 Dwg.0/1

TECH

UPTX: 20010224

TECHNOLOGY FOCUS - FOOD - Preferred Method: The fruit or vegetable composition is exposed to an **enzyme** (pectinase for the fruit) before heat-**treatment** or before **treatment** to separate the juice from the insoluble solids. The fruit or vegetable composition is heated to greater than 140, preferably greater than 150degreesF, for at least 15 minutes. The fruit juice may be dried to produce a powder. The fruit or vegetable juice may be concentrated or microfiltered. The microfiltered juice may be further ultrafiltered. The microfiltered and ultrafiltered juice can also be dried to produce a powder. Preferred Composition: The fruit composition comprises fruit, e.g. cranberries, that has been processed to size-reduce whole fruit, frozen fruit, extracted fruit, or fruit from the genus *Vaccinium*. The vegetable composition comprises vegetables that have been processed to size-reduce whole vegetables, or frozen vegetables.

L18 ANSWER 8 OF 12 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN

AN 2001-025584 [04] WPIDS

DNN N2001-019884

TI Iodine-tungsten lamp sterilization method using adaptive **enzyme** liquor to make front-**treatment**.

DC P34 S05

IN LIU, C

PA (LIUC-I) LIU C

CYC 1

PI CN 1268379 A 20001004 (200104)\*

ADT CN 1268379 A CN 1999-112139 19990326

PRAI CN 1999-112139 19990326

AB CN 1268379 A UPAB: 20010118

NOVELTY - The iodine-tungsten lamp disinfection method using adaptive enzyme liquid for pretreatment is disclosed and includes using iodine-tungsten lamp to radiate. It is characterized by that before radiation, the **medical instrument** and equipment to be **sterilized** are cleaned by adaptive enzyme solution under the action of ultrasonic wave, and using same procedure to **sterilize** fire control cloth which is then used to envelop the **sterilized medical instrument** and equipment. The concentration of said adaptive enzyme solution is 6-10%. The invented method is quick and thorough, and can save labour and material.  
Dwg.0/0

L18 ANSWER 9 OF 12 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN

AN 1993-016018 [02] WPIDS

DNC C1993-007573

TI Strain of *Bacillus licheniformis* bacteria - is used to monitor and control efficiency of sterilisation with hot dry air.

DC B04 D16 D22

IN GUTERMAN, R L

PA (DISI-R) DISINFECTION STERILISATION RES INST

CYC 1

PI SU 1712403 A1 19920215 (199302)\* 5p

ADT SU 1712403 A1 SU 1989-4693565 19890518

PRAI SU 1989-4693565 19890518

AB SU 1712403 A UPAB: 19931118

Spore-forming *Bacillus licheniformis* VKM V-1711D is used to monitor and control the efficiency of **sterilisation** of **medical instruments** with hot dry air. The strain was extracted from a Petri dish **sterilised** with hot air, and is used as a marker strain in testing new hot air **sterilisers** and for developing new methods.

USE - In medicinal microbiology.

In an example, samples contg. 500-5000 spores were placed in a number of Petri dishes and subjected to varying conditions of sterilisation. Subsequently the samples were cultivated in Hottinger's agar medium for 14 days at 37 +/-1 deg.C, and their growth or lack of growth were used as indicators of efficiency of the process.

Bul.6/15.2.92

Dwg. 0/0

L18 ANSWER 10 OF 12 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN  
 AN 1989-341321 [47] WPIDS  
 DNN N1989-259928 DNC C1989-151241  
 TI Cleaning and disinfection of endoscopes - using soln. contg. nonionic surfactant, protease, complexing agent and aldehyde.  
 DC A96 D16 D22 E19 P31 P34 P43  
 IN BANSEMIER, K; DISCH, K; HACHMANN, K  
 PA (HENK) HENKEL KGAA; (HENK) HENKEL KG  
 CYC 22  
 PI EP 342499 A 19891123 (198947)\* DE 7p  
 R: AT BE CH DE ES FR GB GR IT LI LU NL SE  
 DE 3816734 A 19891130 (198949)  
 PT 90564 A 19891130 (198951)  
 NO 8901958 A 19891211 (199004)  
 DK 8902331 A 19891118 (199005)  
 BR 8902274 A 19900109 (199007)  
 JP 02019159 A 19900123 (199009)  
 FI 8902343 A 19891118 (199010)  
 US 5234832 A 19930810 (199333) 5p  
 EP 342499 B1 19940119 (199403) DE 9p  
 R: AT BE CH DE ES FR GB GR IT LI LU NL SE  
 NO 174241 B 19931227 (199405)  
 DE 58906733 G 19940303 (199410)  
 CA 1328726 C 19940426 (199422)  
 DK 169277 B 19941003 (199438)  
 ES 2061780 T3 19941216 (199505)  
 FI 95205 B 19950929 (199544)  
 JP 2758204 B2 19980528 (199826) 5p  
 KR 9704585 B1 19970329 (199938)  
 ADT EP 342499 A EP 1989-108379 19890512; DE 3816734 A DE 1988-3816734 19880517; JP 02019159 A JP 1989-124115 19890517; US 5234832 A US 1989-353291 19890517; EP 342499 B1 EP 1989-108379 19890510; NO 174241 B NO 1989-1958 19890516; DE 58906733 G DE 1989-506733 19890510, EP 1989-108379 19890510; CA 1328726 C CA 1989-599808 19890516; DK 169277 B DK 1989-2331 19890512; ES 2061780 T3 EP 1989-108379 19890510; FI 95205 B FI 1989-2343 19890516; JP 2758204 B2 JP 1989-124115 19890517; KR 9704585 B1 KR 1989-6593 19890517  
 FDT NO 174241 B Previous Publ. NO 8901958; DE 58906733 G Based on EP 342499; DK 169277 B Previous Publ. DK 8902331; ES 2061780 T3 Based on EP 342499; FI 95205 B Previous Publ. FI 8902343; JP 2758204 B2 Previous Publ. JP 02019159  
 PRAI DE 1988-3816734 19880517  
 AB EP 342499 A UPAB: 19930923  
 Cleaning and disinfection of heat- and corrosion-sensitive medical devices, esp. endoscopes, is effected by contacting the surface of the device with a disinfectant/detergent soln., heating the soln. at 55-65 deg. C for 1-15 min., removing the soln., rinsing the surface at least twice with water, and drying with sterilised air at 40-60 deg. C.  
 The soln. contains a low-foam nonionic surfactant, a proteolytic enzyme, a complexing agent, and an aldehyde selected from HCHO and 2-8C aliphatic dialdehydes, and has a pH of 6-8.

The water used in the soln. and for rinsing has a hardness of 3-8 deg. D. The water used in at least the last rinsing step is heated to 55-65 deg. C. ADVANTAGE - The process provides acceptable cleaning and disinfection in short treatment times, can be applied repeatedly without damaging glass fibre endoscopes, and is readily automated.  
0/0

L18 ANSWER 11 OF 12 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN  
AN 1984-176802 [28] WPIDS  
DNC C1984-074639  
TI Detergent compsn. for pre-sterilisation of medical instruments - contains enzymatic preparation contg. seven proteolytic enzymes.  
DC A97 D16 D22 D25 P34  
IN ALESHINA, Z P; ALEXEEVA, M I; ANTON, A G; BELINSKY, A L; FEDOROVA, L G; GREBESHOVA, R N; LUPOVA, L M  
PA (BIOU) BIOTECH RES INST  
CYC 3  
PI US 4456544 A 19840626 (198428)\* 7p  
DE 3328882 A 19850228 (198510)  
JP 60049098 A 19850318 (198517)  
JP 61032360 B 19860726 (198634)  
DE 3328882 C 19890503 (198918)  
ADT US 4456544 A US 1983-520813 19830805; DE 3328882 A DE 1983-3328882 19830810; JP 60049098 A JP 1983-153359 19830824  
PRAI US 1983-520813 19830805  
AB US 4456544 A UPAB: 19930925  
Compsn. (I) comprises (in wt.%) 30-35 Na phosphate, 20-25 Na silicate, 19-22 Na carbonate, 4-6 anionic surfactant (II), 2-4 soap (comprising Na salts of fatty acids), 0.5-2 an enzyme compsn. (III), and the balance Na sulphate.  
(III) comprises (in wt.%): 30-60 alkaline protease, 27-45 neutral protease, 0.01-5 elastase, 0.001-4 collagenase, 0.0001-0.011 leucinaminopeptidase, 0.04-0.15 carboxypeptidase, 0.002-1.5 fibrinolytic enzyme, 0.5-2 lipase, and the balance amylase.  
ADVANTAGE - (I) ensures elimination of all protein and fat contamination from medical instruments and equipment without causing corrosion, using either manual or machine washing at 40-50 deg.C.  
0/0

L18 ANSWER 12 OF 12 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN  
AN 1978-55168A [31] WPIDS  
TI Sterilisation of articles by microwave irradiation - using a vertical waveguide of dielectric material for feeding energy from a generator.  
DC D14 D22  
IN HAMID, M  
PA (MIND) CANADA MIN NAT DEFENCE  
CYC 1  
PI CA 1034734 A 19780718 (197831)\*  
PRAI CA 1976-252899 19760519  
AB CA 1034734 A UPAB: 19930901  
Apparatus for the biological treatment of a flowable material includes a vertical waveguide of dielectric material surrounded by a chamber for receiving the material. Microwave energy is guided from a generator to the waveguide which is designed to allow leakage of the energy into the chamber. A hot gas supply duct communicates with the interior of the waveguide and the chamber.  
Method is useful for sterilisation and destruction of anti-trypsin enzyme in foodstuffs, sterilisation of canned foods and surgical instruments.

Sterilisation is faster and more economical than using hot air or infra-red treatment. Anti-trypsin enzyme is destroyed at a lower temp. using microwave energy.

=> d his'

'HIS'' IS NOT A VALID FORMAT FOR FILE 'WPIDS'

ENTER DISPLAY FORMAT (STD):ebd'

'EBD' IS NOT A VALID FORMAT FOR FILE 'WPIDS'

ENTER DISPLAY FORMAT (STD):end

=> d his

(FILE 'CAPLUS' ENTERED AT 11:31:34 ON 20 OCT 2003)  
DEL HIS Y

FILE 'REGISTRY' ENTERED AT 11:33:42 ON 20 OCT 2003  
E KERATINASE/CN

L1 1 S E3

FILE 'HCAPLUS' ENTERED AT 11:34:02 ON 20 OCT 2003

L2 238 S L1  
L3 246 S L2 OR KERATINASE  
L4 23581 S MEDICAL GOOD# OR SURGICAL (L) INSTRUMENT?  
L5 2 S L3 AND L4  
L6 6074 S CUTLERY OR UTENSIL# OR (LAB OR LABORATORY ) (L) (WARE OR EQUI  
L7 1 S L6 AND L3  
L8 110283 S CABLE OR CENTRIFUG? OR CONTAINER? OR KNIFE? OR PUNCH? OR SAW#  
L9 1 S L8 AND L3  
L10 2 S L5 OR L7 OR L9  
L11 89655 S STERILIZ? OR DISINFECT?  
L12 104617 S HEATING  
L13 193702 S L11 OR L12  
L14 2741 S L13 (L) (L4 OR L6 OR L8)  
L15 2 S L14 AND L3  
L16 0 S ENZYMATIC (L) L14  
L17 660 S ENZYM? (L) L13  
L18 269 S ENZYMIC AND L13  
L19 138213 S L4 OR L6 OR L8  
L20 1840 S L19 (L) L11  
L21 2 S L20 AND L3  
L22 22 S L20 AND (ENZYM?)  
L23 41208 S ENZYM? (L) (TREAT? OR DEGRA? OR HYDROL?)  
L24 4 S L22 AND L23  
L25 5 S L24 OR L21 OR L15  
L26 2 S PROTEOLY? (L) L20  
L27 6 S L25 OR L26  
L28 926 S L19 (L) HEATING  
L29 1 S L28 AND L3  
L30 63886 S L23 OR PROTEOLY?  
L31 2 S L30 AND L28  
L32 7 S L31 OR L29 OR L27  
L33 149369 S PROTEINASE OR TRYPSIN? OR CHYMOTYP? OR PEPSIN? OR CHYMOSIN? O  
L34 15 S L33 AND L20  
L35 93482 S L33 NOT COLLAGEN#  
L36 95121 S L35 OR COLLAGENASE?  
L37 7 S L36 AND L20  
L38 18620 S ENDOPEPTIDAS? OR PEPTIDASE? OR THERMOLYSIN? OR BACILLOLYSIN?  
L39 4 S L38 AND L20  
L40 10440 S CARBONYL HYDROLASE? OR PAPAIN OR PANCREATIN OR STREPTOKINASE?  
L41 4 S L20 AND L40  
L42 10 S L41 OR L39 OR L37

FILE 'REGISTRY' ENTERED AT 12:15:20 ON 20 OCT 2003

FILE 'HCAPLUS' ENTERED AT 12:15:24 ON 20 OCT 2003

=> j\d cost

j\d IS NOT A RECOGNIZED COMMAND

d his

(FILE 'WPIDS' ENTERED AT 12:17:34 ON 20 OCT 2003)  
DEL HIS

FILE 'STNGUIDE' ENTERED AT 12:18:09 ON 20 OCT 2003

FILE 'WPIDS' ENTERED AT 12:24:39 ON 20 OCT 2003

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L1      561019 S HEATING OR STERILI?
L2      19638 S (MEDICAL OR SURGICAL) (2A) (GOOD# OR INSTRUMENT# OR APPARAT?
L3      2107 S L1 (L) L2
L4      54 S KERATINASE
L5      1 S L3 AND L4
L6      2624 S PROTEOLY? (4A) ENZYM?
L7      5 S L3 AND L6
L8      413 S BACILLUS LICHEN?
L9      2 S L8 AND L3
L10     491 S SUBTILISIN? OR CARBONYL (2A) HYDROLAS?
L11     1 S L10 AND L3
L12     6 S L5 OR L7 OR L9 OR L11
L13     22957 S ENZYM? (S) (DEGRA? OR HYDROLY? OR TREAT?)
L14     9 S L3 AND L13
L15     12 S L14 OR L12
L16     329 S HEAT? (S) (ENHANCE? OR INCREASE?) (S) (PROTEOLY? OR ENZYM?)
L17     1 S L3 AND L16
L18     12 S L15 OR L17
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FILE 'WPIDS' ENTERED AT 12:32:10 ON 20 OCT 2003

=> d cost

COST IN U.S. DOLLARS

CONNECT CHARGES

NETWORK CHARGES

DISPLAY CHARGES

FULL ESTIMATED COST

SINCE FILE  
ENTRY

TOTAL  
SESSION

<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>
<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>
<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>
<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>

IN FILE 'WPIDS' AT 12:32:39 ON 20 OCT 2003

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